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lock <near> tree structure <near> rebalancing <near> threshold

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Y Mond, Y Raz - Proc. of VLDB Conf, 1985 - vldb.org

... any node change preserves the PO-B+-tree constraints. During an interaction of two read-lock processes no ... necessary, since there is no change in the structure. ...

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Real-time data access control on B-tree index structures

TW Kuo, CH Wei, KY Lam - Data Engineering, 1999. Proceedings., 15th International ..., 1999 - ieeexplore.ieee.org

... a re-strictive locking mode such as "shared and intention exclusive" locks. ... a key key i for insertion into a B+-tree index structure, and key ...

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[CITATION] Real-Time Data Access Control on B-Tree Index Structures

TWKCH Wei, KY Lam - 15th International Conference on Data Engineering: March 23- ..., 1999 - IEEE Computer Society Press

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Concurrent cache-oblivious B-trees - •mit.edu [PDF]

MA Bender, JT Fineman, S Gilbert, BC Kuszmaul - Proceedings of the seventeenth annual ACM symposium on ..., 2005 - portal.acm.org

... then its parent node contains something near M/2 ... maintain the efficient layout despite changes in the tree. ... A naïve approach would lock segments of the data ...

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[PDF] •The log-structured merge-tree (LSM-tree)

PO'Neil, E Cheng, D Gawlick, EO'Neil - Acta Informatica, 1996 - citeseerx.ist.psu.edu

... an insert reaches a threshold size near the maximum allotted, an ongoing rolling merge process serves ... The C1 tree has a comparable directory structure to a B ...

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[PDF] •Practical lock-freedom

K Fraser, T Harris - University of Cambridge Computer Laboratory, Technical ..., 2004 - bcs.org

... If the threshold is set to one then update operations can update the structure in place ... that may be applied to deadlock-free lock-based algorithms ...

Cited by 111 - Related articles - View as HTML - Web Search - All 7 versions

Real-Time Access Control and Reservation on B-Tree Indexed Data

TW Kuo, CH Wei, KY Lam - Real-Time Systems, 2000 - Springer

... be applied to multiple B + -tree index structure straightforwardly ... a B + -tree if there exists a sequence of ... a control set is to simplify the lock management of ...

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Relaxed Min-Augmented Range Trees for Dynamic IP Router Tables

C Maindorfer - informatik.uni-freiburg.de

... If an update process changes the search structure, then it uses \bowtie ... Otherwise, the leaf's w-lock is changed into a \bowtie -lock. ... Afterwards, the tree is rebalanced. ...

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Multiphase system and method of performing operations on data structures

CL Hersh - US Patent 7,185,340, 2007 - Google Patents

... herein are executed con-currently thus eliminating the need to lock the affected data ... After this insertion occurs, the entire tree data structure 700 is ...

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[PDF] Real-Time Access Control and Reservation on B-Tree Indexed Data

TWKCH Wei, KY Lam - citeseerx.ist.psu.edu

... the leaf to some proper node, eg. the root, using exclusive locks to restructure the ... with a key key i for insertion into a B + -tree index structure, and ...

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